



**MULTIFUNCTIONAL SYSTEM FOR LOW-INTENSITY
TRANSCRANIAL ELECTRICAL STIMULATION**



Soluzioni integrate per le Neuroscienze

Transcranial direct current stimulation (tDCS) and transcranial alternating current stimulation (tACS, tRNS) apply low-intensity currents in order to generate neuromodulations of the spontaneous neuronal activity. The BrainSTIM stimulator, with its wide range of stimulation possibilities, provides a useful tool to enhance the study and rehabilitation of many central nervous system pathologies (migraines, depressive states, epilepsy, motion disorders, language disorders, spasticity, tinnitus, memory disorders, Parkinson's, Alzheimer's, pain, dystonia, hypertension, stroke, ischemia, addictions, cognitive disorders, etc.).

The BrainSTIM stimulator is an entirely programmable system. It is designed both for research purposes and for the planning and realization of a complete therapeutic process, whether in a practice or as home treatment.

The BrainSTIM is able to communicate with the control and programming unit via wireless Bluetooth® connection: stimulation protocols can be easily created in the computer and then saved in the stimulation unit, which becomes a ready-to-use tool. It's simple and user-friendly controls make it perfect for domiciliary use.

The BrainSTIM automatically stores all data coming from the stimulation sessions (patient, date, time, stimulation duration), generating a "digital diary" for each patient. This information can then be read directly on the control unit through the BrainSTIM software.

The system also includes an fMRI module that allows transcranial direct current stimulation to be performed during a functional Magnetic Resonance; this module is compatible with scanners up to 3T.

BrainSTIM, the high-resolution transcranial stimulator

1. Microcontroller-based equipment powered by rechargeable batteries.
2. Unidirectional and bidirectional current.
3. Waveforms: direct current, alternating current, RNS, pulse, sine half-cycle, half sine, sine wave, noise with selectable band (0 to 1000 Hz).
4. Bluetooth® communication interface.
5. TTL Trigger in/out for the synchronization with external systems (with additional module), to use multiple stimulators at a time.
6. Sham protocols management for clinical research, with possibility of blind and double-blind trials.
7. Completely programmable stimulation protocols, possibility to store up to 10 protocols on each stimulator.
8. Automatic control/storage of all treatment stages.
9. Built-in function to limit the number of stimulations per day that a patient can carry out at home.
10. BrainSTIM software, compatible with Microsoft Windows operating systems: XP, 7, 8, 10.
11. Supplied with a handy bag, specific electrodes and connection cables, battery charger and set of rechargeable batteries, for a complete turnkey system.



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